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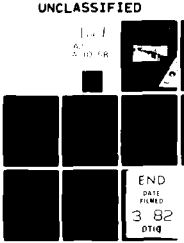
THE COASTAL ENVIRONMENTAL REFERENCE SERVICE, RETRIEVAL PROGRAM --ETC(U)
OCT 81 R B BLUMENTHAL, B O'QUINN N00014-75-C-0408
UNCLASSIFIED NOO-RP-35 NL



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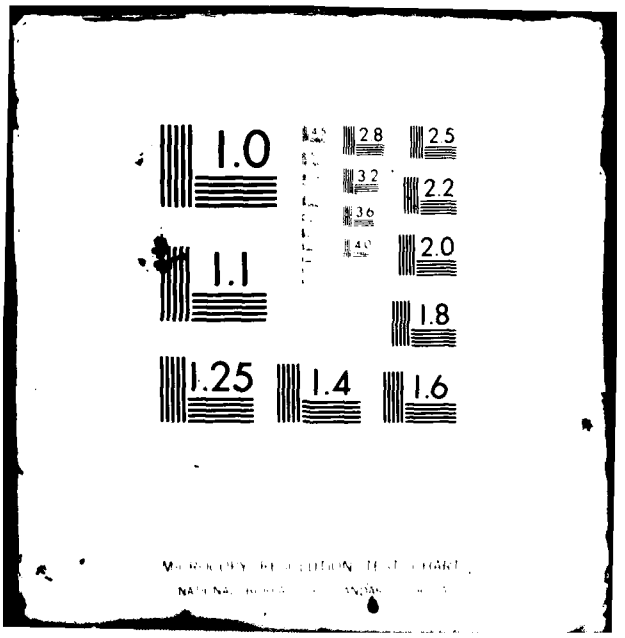
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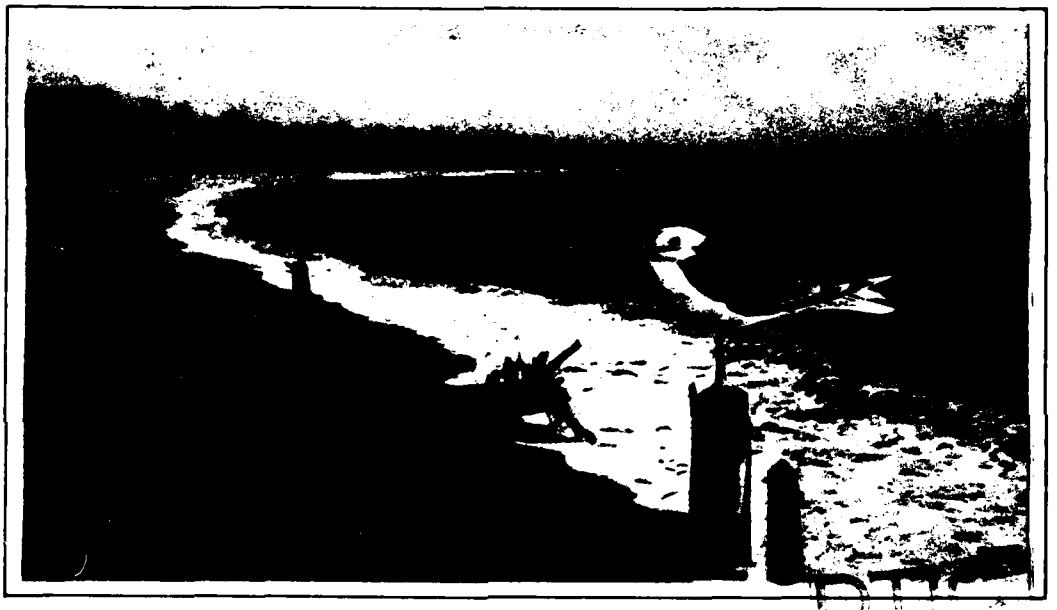
REFERENCE PUBLICATION

RP-35

THE COASTAL ENVIRONMENTAL REFERENCE SERVICE

RETRIEVAL PROGRAM USERS GUIDE



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FOREWORD

The Coastal Environmental Reference Service (CERS) is the subset of the Oceanographic Management Information System (OMIS) which identifies environmental studies and data collection efforts in coastal areas. Information on environmental data and studies for coastal regions throughout much of the world can be conveniently extracted from the CERS data base.

C. H. Bassett
Captain, USN
Commanding Officer

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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Data Inventory	Coastal Data
Data Index	Environmental Data
Data Base	Geophysical Models

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Detailed instructions are presented for the retrieval of information from the Coastal Environmental Reference Service Data Base via the use of an interactive retrieval program. The data base contains information on coastal studies, data collection sites and the types of data collected, and geophysical models on coastal processes. Information obtainable includes location, dates, parameters taken, methods of collection, points of contact for data retrieval, published articles, and brief explanatory remarks. There

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is also an analog feature which permits retrieval of data source records for areas which are environmentally similar to a series of user provided parameter specifications.

TABLE OF CONTENTS

APPENDIXES

1. Introduction

The Coastal Environmental Reference Service (CERS) is the subset of the Oceanographic Management Information System (OMIS) concerned with environmental studies and data collection efforts in coastal areas. The CERS data base contains information on beach studies, environmental data collection efforts at specific sites, and information about computer models for nearshore topics. Included is information on the type of data, location, method of collection, and point of contact for data retrieval.

The CERS was designed and implemented by the Department of Environmental Sciences, University of Virginia, under ONR contract no. N00014-75-C-04080, R. Dolan and B. Hayden co-investigators. Implementation was done under the SHARP data base system at the Naval Ship Research and Development Center at Caderock, Maryland. The system was transferred to the Naval Oceanographic Office, NSTL Station, Bay St. Louis, Mississippi in late 1979, and was redesigned to operate within the UNIVAC 1100 Operating System environment. CERS was implemented as a subset of a composite Oceanographic Management Information System (OMIS).

The CERS is intended to serve as an information system on coastal studies and data collection sites, and as a source of contact points for data retrieval. An interactive retrieval program (CISRET) is provided to enable a wide spectrum of users to access the data base independently by providing answers to programmed prompts.

2. Data Description

2.1 Basic Data Types

Input to the CERS data base is derived from the following types of data sources:

1. Common data - information about coastal study data collection efforts.
2. Specific data - information about study or data collection sites.
3. Model data - information about geophysical models on coastal processes.

2.2 Scope of Information

Information obtainable about the data sources includes:

1. Name of the program, model, or site
2. Environmental parameters considered
3. Sponsoring organization
4. Point of contact
5. Publications about program, model or site data summaries
6. Remarks or input and output specifications for models

3. Interactive Retrieval Program

3.1 General Instructions

Appendices A and B should be read by persons unfamiliar with the use of demand terminals before proceeding farther. Appendix A explains the process of logging on the NAVOCEANO U-1108 "B" system computer. Appendix B provides guidance for interacting with the computer. After signing on the computer, the retrieval program is initiated by typing in:

```
@ADD,L  CERS*KERS.RETRIEVE
```

This statement will assign all pertinent files and begin program execution.

3.2 Retrieval Query Modes

The three search modes for information retrieval from the CERS data base are the tutorial, advanced, and analog modes. The tutorial mode, which is primarily for novice users, provides textual instructions for responding to queries and tables of entries used in response to parameter, country, and ocean queries. An advanced mode allows direct response to queries without the receipt of textual instructions or questions. The analog mode will search for data source records for areas which are physically similar to environments described by user provided parameters.

3.2.1 Tutorial Mode Option

The retrieval program is initiated by typing in:

```
@ADD,L  CERS*KERS.RETRIEVE
```

The following statements will be printed:

```
CERS INTERACTIVE RETRIEVAL ENTERED

PLEASE ENTER QUERY MODE OPTION
ENTER AD FOR ADVANCED, TU FOR TUTORIAL, AN FOR ANALOG
>TU
```

The entry of TU for the tutorial mode invokes the following response:

```
YOU HAVE SELECTED THE TUTORIAL QUERY MODE
YOU MAY QUERY ON A SEARCH PARAMETER
FROM A SPECIFIED LIST. IF AT ANY TIME YOU
REQUIRE ASSISTANCE OR MORE EXPLANATION WHILE
ENTERING YOUR QUERY, TYPE IN THE WORD HELP.
IF YOU DISCOVER THAT ONE OF THE VALUES WHICH
YOU TYPED IS INCORRECT, JUST CONTINUE YOUR
QUERY. AFTER YOUR QUERY HAS BEEN ENTERED
YOU WILL BE OFFERED AN OPPORTUNITY TO RETURN
TO THE START AND CORRECT YOUR QUERY.

PARAMETER OF CONCERN OPTIONS (CHOOSE 1):

CODE PARAMETER          CODE PARAMETER          CODE PARAMETER
01 WAVES                02 TIDES                03 CURRENTS
04 WIND                 11 WATER TEMPERATURE    12 SALINITY
13 WATER DENSITY        20 STORMS               21 AIR TEMPERATURE
22 BAROMETRIC PRESSURE  23 PRECIPITATION        24 DEW POINT
25 VISIBILITY           26 SOLAR RADIATION      27 TEMP. OF SUBSTRATA
30 BATHYMETRY           31 SEDIMENTS            32 BEACH MORPHOLOGY
33 BEACH CHARACTERISTICS
ENTER APPROPRIATE CODE.
>01
```

Typing in 01 selects waves as the parameter.

COUNTRY OF INTEREST (CHOOSE 1):

CODE	COUNTRY	CODE	COUNTRY
AG	ALGERIA	AQ	AMERICAN SAMOA
AY	ANTARCTICA	AS	AUSTRALIA
BF	BAHAMAS	BB	BARBADOS
BE	BELGIUM	BD	BERMUDA
BR	BRAZIL	VI	BRITISH VIRGIN ISLANDS
CA	CANADA	EQ	CANTON ISLAND
CJ	CAYMAN ISLANDS	CH	CHINA
KT	CHRISTMAS ISLAND	CU	CUBA
DA	DENMARK	GC	E. GERMANY
FI	FINLAND	FR	FRANCE
GB	GABON	UK	GREAT BRITAIN
GJ	GRENADA	GP	GUADELOUPE
GQ	GUAM ISLAND	GY	GUYANA
IR	IRAN	JA	JAPAN
JQ	JOHNSTON ATOLL	KU	KUWAIT
LY	LYBIA	MY	MALAYSIA
MB	MARTINIQUE	MX	MEXICO
MQ	MIDWAY ISLAND	NL	NETHERLANDS
NU	NICARAGUA	NO	NORWAY
PK	PAKISTAN	PP	PAPUA/NEW GUIANA
PL	POLAND	RQ	PUERTO RICO
SG	SENEGAL	SF	SOUTH AFRICA
UR	SOVIET UNION	SP	SPAIN
ST	ST. LUCIA	VC	ST. VINCENT
NS	SURINAM	TW	TAIWAN
TH	THAILAND	TD	TRINIDAD AND TOBAGO
TC	UNITED ARAB EMIRATES	US	UNITED STATES
IQ	US MISC PACIFIC IS	VQ	VIRGIN ISLANDS (US)
WQ	WAKE ISLAND	GE	W. GERMANY
YO	YUGOSLAVIA		

ENTER APPROPRIATE CODE.
>US

Entering US selects the United States as the country.

OCEAN OF INTEREST (CHOOSE 1):

CODE	OCEAN	CODE	OCEAN
ARC	ARCTIC OCEAN	BLT	BALTIC SEA
CBB	CARIBBEAN SEA	GCA	GULF OF CALIFORNIA
GMX	GULF OF MEXICO	MED	MEDITERRANEAN
NAT	NORTH ATLANTIC	NPC	NORTH PACIFIC
NTH	NORTH SEA	PNG	PERSIAN GULF

```
SAT  SOUTH ATLANTIC              SPC  SOUTH SPACIFIC
ARS  ARABIAN SEA                 BBG  BAY OF BENGAL
SML  STRAIT OF MALACCA           ADS  ANDAMAN SEA
STW  STRAIT OF TAIWAN

ENTER APPROPRIATE CODE.
>NAT
```

NAT indicates that the North Atlantic is the ocean selected.

```
THE SYSTEM WILL SEARCH FROM 1 TO 20 DEGREES
AROUND YOUR LOCATION OF CONCERN. PLEASE ENTER
NUMBER OF DEGREES (2 DIGITS).
>02
```

The system will search an area two degrees on all sides of the selected location.

```
ENTER LATITUDE TO THE NEAREST WHOLE DEGREE
(2 DIGITS AND HEMISPHERE EG, 30N).
>35N

ENTER LONGITUDE TO THE NEAREST WHOLE DEGREE
(3 DIGITS AND HEMISPHERE EG, 100W).
>077W
```

The selected location is 35N, 077W.

```
TIME FRAME OF CONCERN (CHOOSE 1):

CODE    TIME FRAME

  1     DATA COLLECTION IN PROGRESS AT TIME
        OF RECORD INPUT.
  2     INCLUDE ALL REORDS.

ENTER APPROPRIATE CODE.
>2
```

```
YOU MAY CHOOSE REPORT TP1
(GENERAL INFO ON DATA COLLECTION PROGRAMS)
OR TP2 (INFO ON DATA COLLECTION SITES).
ENTER TP1 OR TP2.
>TP1

YOU HAVE CHOSEN THE FOLLOWING CRITERIA:

PARAMETER                WAVES
TIME FRAME               ALL RECORDS
LOCATION                 NORTH ATLANTIC
                         UNITED STATES

  37N/079W                   37N/075W
         X                   X
                   X
         X                   X
  33N/079W                   33N/075W
REPORT      TP1

WHAT WOULD YOU LIKE TO DO (CHOOSE 1)?

CODE         ACTION
  1       RUN THE QUERY
  2       QUIT
  3       TRY AGAIN
ENTER APPROPRIATE CODE.
>1

WOULD YOU LIKE THE INFORMATION SECTION ON YOUR
CHOSEN PARAMETER? IT CONSISTS OF THREE
SECTIONS: METHODS REFERENCE, PERSONAL
REFERENCE, OTHER SOURCES TO CHECK.
ENTER YES OR NO.
>NO

YOUR QUERY HAS BEEN ACCEPTED.
```

The information section is available for only five parameters: waves, tides, wind, bathymetry, and beach characteristics. It is rather lengthy and if requested will be printed prior to the response to the query. The first of the reports fulfilling the query specifications follows:

GENERAL INFORMATION ON DATA COLLECTION PROGRAMS

REPORT TP1 AUG 19 1981

RCDID 0001
CERC WAVE GUAGE PROGRAM

STUDY-TYPE LONG-TIME SERIES DATA-TYPE REAL SITES 36
PARAMETERS WAVES
MEDIUMS MAGNETIC TAPE
STRIP CHARTS
DATA-AVAL COST OF RETRIEVAL/REPRODUCTION
SPONSOR CERC
PRIN-INVEST HARRIS, D.L., CERC, FORT BELVOIR, VA.

POC-NAME OCEANOGRAPHY BRANCH
POC-INST COASTAL ENGINEERING RESEARCH CENTER
POC-ADD KINGMAN BUILDING
POC-STATE FORT BELVOIR, VA. 22060, USA
POC-PHONE 202-325-7399

PUB-DATA DARLING, J.M. AND D.G. DUMM, 1967. THE WAVE RECORD PROGRAM AT CERC. CERC MISC PAPER MP 1-67
THOMPSON E.F., 1974. RESULTS OF THE CERC WAVE MEASUREMENT PROGRAM. PROCEEDINGS INTERNATIONAL SYMPOSIUM ON OCEAN WAVE MEASUREMENT AND ANALYSIS, V. 1:836-855, ASCE
THOMPSON, E.F. 1977. WAVE CLIMATE AT SELECTED LOCATIONS ALONG U.S. COASTS. CERC TR 77-1

REMARKS SIGNIFICANT WAVE HEIGHT AND PERIOD AND SPECTRUM ANALYSIS OF THE DATA ARE DONE ROUTINELY. MANY OTHER PROGRAMS ARE AVAILABLE AT CERC FOR SPECIAL ANALYSES. THE DATA ARE SUMMARIZED MONTHLY. THE QUALITY OF INCOMING DATA IS RATED BY PROGRAMS WHICH CHECK FOR ERRORS CAUSED BY GUAGE AND TRANSMISSION EQUIPMENT MALFUNCTIONS.

After all of the reports have been printed, the system will respond with:

```
WOULD YOU LIKE TO SUBMIT ANOTHER QUERY (Y OR N)?
>N
RETRIEVAL TERMINATED
```

Had you replied with Y, the query process would have restarted with the selection of the mode option. You may now sign off the computer by typing: @FIN

3.2.2 Advanced mode option

The entry of AD for the advanced mode invokes the following response:

PLEASE INPUT QUERY COMMANDS

The query comands consist of a series of statements starting with IF followed by specification selections. These statements select items such as parameters, country, ocean, latitude and longitude range, and collection status. Appendix C contains the complete list of acronyms which can be used for advanced mode query commands. The code values for these items are contained in Appendix D, CERS Tables. A maximum of ten 'IF' statements may be used in the query. The last 'IF' statement is followed by a report type statement and the line of coding, $END. The commands for a report type TP2 query with the same parameter values selected for the report type TP1 query presented in Section 3.2.1 are:

```
IF PARAMETERS = 01
IF COUNTRY = US
IF OCEAN = NAT
IF LATITUDE < 37N AND > 33N
IF LONGITUDE < 079W AND > 075W
IF STATUS EQ 2
REPORT TP2
$END
```

This query will return TP2 (information on data collection sites) reports for the same location and parameters requested for the TP1 report of Section 3.3. The query is initiated by typing $END on the line following REPORT TP2. The system will respond with YOUR QUERY HAS BEEN ACCEPTED and commence output of the report information. The text for one of the reports provided in response to the query is:

INFORMATION ON DATA COLLECTION SITES

REPORT TP2 AUG 19 1981

```
RCDID       0043-069
COUNTRY     UNITED STATES   OCEAN   NORTH ATLANTIC
LATITUDE    341200N
LONGITUDE   0774800W
```

```
WRIGHTSVILLE BEACH, N.C.
CRYSTAL PIER
POC-NAME     ANDRE SZUWALSKI
POC-INST     COASTAL INFORMATION ANALYSIS CENTER, CERC
POC-ADD      KINGMAN BUILDING
POC-STATE    FORT BELVOIR, VA.
POC-PHONE    202-325-7386

AXSHORE      NEARSHORE                  STATUS   TEMPORARILY INACTIVE
PERIOD-NUM   01
START-DATE   OCT 70
STOP-DATE    OCT 72
LENGTH-YR         2.0
DATA-GAPS    0-10 PCT
PERIODS      1
DATA-FREQ
RCD-LENGTH
RCD-FREQ     DAILY
VARIABLE     WAVE HEIGHT          WAVE PERIOD          WAVE DIRECTION
             BREAKER TYPE
METHOD       VISUAL ESTIMATES     TIMES NO OF CRESTS    PROTRACTOR
             VISUAL ESTIMATES

REMARKS      CERC STATION NO. 1525. DATA STORED ON MAGNETIC TAPE.
             OUTPUT AVAILABLE AS LISTS OR TABLE THROUGH CERC PROGRAM
             VIS1.
```

The advanced mode is also used to obtain reports on geophysical models, Report type MOD. The coding for models on bathymetry, parameter 30, is:

```
IF RCDID < 9999 AND > 9949
IF PARAMETERS = 30
REPORT MOD
$END
```

This query selects all type MOD records on bathymetry between records 9949 AND 9999. All of the type MOD records currently in the CERS data base will have ID numbers between 9949 and 9999. The only option is parameters. Typing $END on the line following REPORT MOD will initiate the following text.

INFORMATION ON COASTAL AND SHELF MODELS

REPORT MOD AUG 19 1981

	9950-001		
MODEL	BAR SIMULATION MODEL		
COMPUTER	CONTROL DATA CORP. CYBER 172		
MODEL-TYPE	SIMULATION	HRDWR-TYPE	DIGITAL
SOURCE-LANG	FORTRAN	OUT-MODE	LINE PRINTER
USABILITY	UNDOCUMENTED		
DATA-AVAL	COST OF RETRIEVAL/REPRODUCTION		
PARAMETERS	PARA 28 NOT VALID		
VARIABLE	BATHYMETRY		
POC-NAME	WILSON N. FELDER		
POC-INST	DEPT. OF ENVIRONMENTAL SERVICES		
POC-ADD	UNIVERSITY OF VIRGINIA		
POC-STATE	CHARLOTTESVILLE, VA 22903		
POC-PHONE	804-924-7761		
PRIN-INVEST	FELDER		
PUB-DATA	1. FELDER, W.N., 1978. PHD DISSERTATION DEPT. OF ENVI. SCI., UNIV OF VA.		
TIME-STEP	HOURS-DAYS	SPACE-SCALE	
IN-GRID	2 DIMENSIONS	OUT-GRID	SAME
IN-AXES		OUT-AXES	
IN-PATTERN	RECTANGULAR	OUT-PATTERN	SAME
IN-VAR	DEPTH	OUT-VAR	DEPTH AT GRID POINTS
IN-CONST	GRID SQUARE DIMENSIONS WAVE PERIOD ANGLE DEEP WATER WAVE HEIGHT		

REMARKS THIS MODEL USES THE SEA BREEZE REFRACTION MODEL TO REFRACT INCOMING WAVES. THE WAVES CAUSE BOTTOM SEDIMENT TRANSPORT BETWEEN GRID SQUARES RESULTING IN THE SIMULATION OF BAR FORMATION. THE WAVE REFRACTION PATTERN IS ALTERED TO CONFORM TO BATHYMETRY CHANGES AFTER EACH TIME STEP.
CALIBRATION:
MUST HAVE SAMPLE OF ORIGINAL AND FINAL BATHYMETRY AND INPUT DATA FOR THE INTERVENING PERIOD IN ORDER TO ESTABLISH VALUES FOR 3 CALIBRATION CONSTANTS.

3.2.3 Analog Mode Option

The analog mode permits retrieval of records of data sources for areas which are physically similar to the area in question. When the analog mode is selected, the user is prompted to provide the physical parameters which describe the coastal environment of the coastal area of interest. The system will search up to sixteen descriptive parameters. These parameters and their code numbers are:

01 COASTAL LANDFORM TYPE - REGIONAL GEOLOGY
02 COASTAL LANDFORM TYPE - RELIEF
03 COASTAL LANDFORM TYPE - SHORELINE CHARACTER
04 WAVES - SIGNIFICANT BREAKER HEIGHT
05 WAVES - WAVE CLIMATE CLASS
06 TIDAL RANGE
07 TIDAL TYPE
08 STORM FREQUENCY
09 BEACH MATERIALS - PARTICLE SIZE
10 BEACH MATERIALS - PARTICLE TYPE
11 BOTTOM MATERIALS - PARTICLE SIZE
12 BOTTOM MATERIALS - PARTICLE TYPE
13 COASTAL ORIENTATION
14 OFFSHORE CONFIGURATION
15 WIND SPEED
16 WIND DIRECTION

The user will be asked to select at least eight of the above parameters for comparison. The system will provide lists of value selections for each parameter submitted. After the value selections for the parameters have been input, the system will respond with:

YOUR QUERY HAS BEEN ACCEPTED
N HITS FOR THIS ANALOG SESSION

'N' is the number of matching environments based on eight parameters. You will also be given a number of near hits based on six or seven matching parameters. If a "no hit" response is encountered using at least eight parameters, a location with a similar environment is not available in the data base. The record numbers of comparable beaches will be provided along with instructions on how to access them. After obtaining the output for the beaches, the user will be asked if he wishes to submit another query. He can type Y for another query or N which will terminate access to the CERS data base.

A. Appendix A - Logging-On the NAVOCEANO UNIVAC-1108 Computer

A.1. Logging on the Computer

User interaction with the computer requires that the terminal be 'connected' or 'logged on' to the computer. Methods of connection vary with the terminal type.

Some terminals require that the user dial the computer for connection. For these, special switch settings are necessary. Other terminals are directly connected to the computer. Log on is more simple for these.

A.2. Dial-up Terminals.

1. Switch Settings
   - A. Power: ON
   - B. Transmission rate: 300 bps
   - C. Parity: NONE
   - D. Character set: ALT, CAPS LOCK, etc. to make all letters upper case

2. Connection Process
   - A. Dial the number of the computer and wait for the tone. The phone should ring no more than twice before being automatically answered. A tone should then be heard. If the line is busy or if a recording indicates that all circuits are in use, try again later. If there is no answer, dial ext 4452 for a recorded message which describes the system status.

   - B. After receiving the tone,
     1. Place the phone in the accompanying acoustic coupler (look for a note on the coupler as to the placement of the phone mouthpiece), or
     2. If no coupler is used, press the DATA button on the terminal or phone and return the receiver to the phone cradle.

   - C. Type in the site or terminal ID, provided by the OMIS staff. The computer should then respond with a request for USERID/PASSWORD, followed by a mask to cover the characters to be entered. This entry is also to be provided by the OMIS staff.

```
SITEID
ENTER USERID/PASSWORD:
>XXXXXXXXXXX   (mask to cover password)

*DESTROY USERID/PASSWORD ENTRY
*UNIVAC 1100 OPERATING SYSTER  VER. 33R2
```

```
RUN NUMBER 5

LAST RUN AT: 070280 082123
DATE: 070280      TIME: 122743
>                 (you may enter OMIS subsystem)
```

D. If the output to the terminal is as shown above, the user is ready to access an OMIS subsystem. Otherwise, the output should appear as:

```
SITEID
ENTER USERID/PASSWORD:
>XXXXXXXXXXX   (mask to cover password)

*DESTROY USERID/PASSWORD ENTRY
*UNIVAC 1100 OPERATING SYSTER  VER. 33R2
>                          (enter @RUN entry here)
```

In this case an @RUN entry is required.

Now input the @RUN entry in the format:

```
@RUN EUXXXX,HHHHHH999999/8888,QQQ
```

where XXXX = some identifier (e.g., OMIS)
HHHHHH = an account no. from OMIS staff
999999 = an account code from OMIS staff
8888 = a number matching the USERID
QQQ = a qualifier, from OMIS staff

A.3. Directly Connected Terminals

1. Turn on power- if no blinking 'cursor' appears in the upper left hand corner of the screen, be sure that the switch on the right underside of the terminal is pushed away from you.
2. Be sure that the poll light is blinking (U200) or that the MESSAGE INCOMPL light is blinking (U100).
3. If the light is blinking, the computer is ready to accept the terminal ID. Press the 'SOE' key, then enter the terminal ID.
4. The computer should request USERID/PASSWORD (no mask). From this point proceed as in divisions 2.C and 2.D of instructions for DIAL-UP terminals.

B. Appendix B - Interacting with the NAVOCEANO UNIVAC-1108 Computer

B.1. Interacting with the Computer

Program requests for user input are normally preceeded by an explanation of what type of data is desired. The actual request for data entry is marked by a 'prompt' character at the left hand side of the next line. The prompt character used varies with the type of terminal.

A '>' symbol is the character used by typewriter terminals, as well as some video terminals. Uniscope U100 and U200 terminals use a small triangle, referred to on the keyboard as 'SOE' (Start Of Entry).

An entry can be thought of as characters sent to the computer by pressing the TRANSMIT key (typewriter terminals RETURN). Entries should not be started before the prompt appears! Such premature input can result in either the message 'WAIT LAST INPUT IGNORED' or the entry of unwanted characters.

It is important that the use of the 'SOE' by the Uniscope terminals be understood. When the transmit key is hit, characters will be transmitted from the flashing cursor (marking current user position on the screen) to the previous 'SOE' character. Even if the last 'SOE' appears on the previous line, TRANSMISSION WILL START FROM THAT 'SOE'!!! If a user inputs and/or transmits before the system provides the prompt, the result may be an undesirable entry.

There are several minor exceptions to the 'rule' concerning prompting. Assume that a prompt has appeared requesting input. The operating system or a computer operator may send a message to the terminal, such as the ones below.

```
*TIMEOUT WARNING*        (from operating system)
*TB* A/C PROBLEMS. PLZ SIGN OFF. (from an operator)
```

These outputs did not come from the executing program, but were generated by an outside source. After the message the user is taken to the next line, ...but NO PROMPT APPEARS!!! Input, however is still being expected. At this point caution should be exercised by U100 and U200 users. THEY MUST SUPPLY AN 'SOE' CHARACTER BEFORE ATTEMPTING ANY INPUT!!! Characters may then be entered and transmitted.

B.2. Interruption of Program Output

If one wishes to stop the output coming to the terminal, he need only press the 'MESSAGE WAITING', 'BREAK', or 'INTRPT' key (depending on the terminal). The message 'OUTPUT INTERRUPT' is sent to the terminal. This pause allows the user to read the screen contents of the Uniscope before it scrolls off. To request that output be continued, enter '@@CONT'. Any other entry will be taken as a response to the next question... and will cause trouble!!! Remember, U100 and U200 users must first type the 'SOE' character.

Should one wish to skip the rest of the output and proceed to the next question asked, he may enter '@@X 0'. Caution: the output detailing the question will also be suppressed, and only a prompt character will appear at the terminal. Input is expected at this point. If the user is familiar enough with the program, he may proceed carefully. He could also enter '*' to back up to the previous question. This can become tricky! Remember, the U100's and the U200's require the 'SOE' before the '@@X 0'.

B.3. Terminations

There are several ways in which user programs can cease execution. The most desriable method is to enter the termination characters described by the executing program. Normal termination should then occur. After the executing program terminates, the user may enter '@FIN' to 'sign off' the terminal.

Possible methods of undesirable termination include:

1) SYSTEM CRASH (computer dies),
2) TIME OUT (the user fails to transmit data within a set time),
3) INTERNAL ERROR (the executing program terminates because of its own error, providing the user with an error message),
4) IMPROPER INPUT (unless program documentation indicates otherwise, do not enter '@').

While types 3 and 4 cause the effects of a session to be lost, user time out and system crashes are the most damaging to a database. For this reason the user should avoid long pauses during update sessions. If such pauses are necessary, the executing program should be 'normally' terminated, releasing the database.

If, at any time, one receives the message 'DATA IGNORED IN CONTROL MODE', the retrieval program is no longer executing. It must again be entered if continued execution is desired.

C. Appendix C - Search Element Acronyms

RCDID: Record identification number

Study-type: Temporal and spatial characteristics of a study.

Data-type: Measured (real) or model-generated (synthetic) data.

Parameters: The name of the physical entity measured during a study (e.g. waves).

Variable: The particular attribute of the parameter which is being measured (e.g. wave height).

Analyses: Description of analytical treatment of data if any.

Lattitude: Location of study site (North or South)

Longitude: Location of study site (East or West)

WMO-Area: World Meteorological Organization code for the study site location.

Country: Code identifying the country in which the study site is located.

Ocean: Code identifying the water body in which the study site is located.

Axshore: (Across-the-shore) environment in which the study site is located.

Status: Active (data are being collected at the time of record input) or inactive (discontinued).

Startdate: Date, for each period of operation, on which data were first collected.

Stop-date: Date, for each period of operation, on which data were last collected.

Length-yr: Length in years of each operating period.

Data-gaps: Percentage of deviations from the stated measurement schedule.

D. Appendix D - C E R S Tables

STUDY TYPE

1 SITE SPECIFIC	2 DATA SUMMARY
3 LONG TIME-SERIES	4 SYNOPTIC SCALE
5 MODEL	

DATA TYPE

1 REAL	2 SYNTHETIC
3 REAL AND SYNTHETIC	4 SEE REMARKS

PARAMETERS

01 WAVES	02 TIDES
03 CURRENTS	04 WIND
11 WATER TEMPERATURE	12 SALINITY
13 WATER DENSITY	20 STORMS
21 AIR TEMPERATURE	22 BAROMETRIC PRESSURE
23 PRECIPITATION	24 DEW POINT
25 VISIBILITY	26 SOLAR RADIATION
27 TEMP. OF SUBSTRATE	30 BATHYMETRY
31 SEDIMENTS	32 BEACH MORPHOLOGY
33 BCH CHARACTERISTICS	

MEDIUM

0 UNKNOWN	1 MAGNETIC TAPE
2 PUNCHED CARDS	3 PUNCHED PAPER TAPE
4 STRIP CHARTS	5 DATA SHEETS
6 REPORTS/PUBLICATIONS	7 MAPS/CHARTS
8 MICROFILM	9 SEE REMARKS

AVAILABILITY

0 UNKNOWN	1 FREE ON REQUEST
2 COST OF RETRIEVAL/REPRODUCTION	3 PERMISSION OF INVESTIGATOR
4 ONSITE USE ONLY	5 PUBLISHED
6 SUBSCRIPTION	7 COMPUTER COST
9 SEE REMARKS	

ANALYSIS

1 DATA HAVE BEEN ANALYZED, SEE REMARKS
2 DATA HAVE NOT BEEN ANALYZED
3 STATE OF DATA ANALYSIS IS UNKNOWN

COUNTRY

AG ALGERIA	AQ AMERICAN SAMOA
AY ANTARCTICA	AS AUSTRALIA
BF BAHAMAS	BB BARBADOS
BE BELGIUM	BD BERMUDA
BR BRAZIL	VI BRITISH VIRGIN IS
CA CANADA	EQ CANTON ISLAND
CJ CAYMAN ISLANDS	CH CHINA
KT CHRISTMAS ISLAND	CU CUBA
DA DENMARK	GC E. GERMANY
FI FINLAND	FR FRANCE
GB GABON	UK GREAT BRITAIN
GJ GRENADA	GP GUADELOUPE
GQ GUAM ISLAND	GY GUYANA
IR IRAN	JA JAPAN
JQ JOHNSTON ATOLL	KU KUWAIT
LY LIBYA	MY MALAYSIA
MB MARTINIQUE	MX MEXICO
MQ MIDWAY ISLAND	NL NETHERLANDS
NU NICARAGUA	NO NORWAY
PK PAKISTAN	PP PAPUA/NEW GUINEA
PL POLAND	RQ PUERTO RICO
SG SENEGAL	SF SOUTH AFRICA
UR SOVIET UNION	SP SPAIN
ST ST. LUCIA	VC ST. VINCENT
NS SURINAM	TW TAIWAN
TH THAILAND	TD TRINIDAD AND TOBAGO
TC UNITED ARAB EMIRATES	US UNITED STATES
IQ US MISC PACIFIC IS	VQ VIRGIN ISLANDS (U.S.)
WQ WAKE ISLAND	GE W. GERMANY
YO YUGOSLAVIA	

OCEAN

ADS ANDAMAN SEA	ARS ARABIAN SEA
ARC ARCTIC OCEAN	BLT BALTIC SEA
BBG BAY OF BENGAL	CBB CARIBBEAN SEA
GCA GULF OF CALIFORNIA	GMX GULF OF MEXICO
MED MEDITERRANEAN	NAT NORTH ATLANTIC
NPC NORTH PACIFIC	NTH NORTH SEA
PNG PERSIAN GULF	SAT SOUTH ATLANTIC
SPC SOUTH PACIFIC	SML STRAIT OF MALACCA
STRAIT OF TAIWAN	

AXSHORE

1 ONSHORE	2 NEARSHORE
3 OFFSHORE	

GAP

0 UNKNOWN
1 0-10 PCT
2 11-20 PCT
3 21-30 PCT
4 31-40 PCT
5 41-50 PCT
6 GT 50 PCT

VARIABLE

0100 WAVES
0101 WAVE HEIGHT
0102 WAVE PERIOD
0103 WAVE AMPLITUDE
0104 WAVE ENERGY
0105 WAVE POWER
0106 WAVE DIRECTION
0107 SURF/BREAKER HEIGHT
0108 SURF/BREAKER PERIOD
0109 SURF ZONE WIDTH
0110 SURF DIST.OFFSHORE
0111 BREAKER TYPE
0112 SIGNIFICANT WAVE HT
0113 WAVE HEIGHT SPECTRA
0114 BREAKER ANGLE
0115 WAVE SWASH VELOCITY
0116 WAVE SWASH POSITION
0117 BREAKING DEPTH
0118 WAVE LENGTH
0119 TOTAL WAVE ENERGY
0120 WAVE ENERGY SPECTRA
0121 INFRAGRAVITY WAVES
0200 TIDES
0201 TIMES HI + LO TIDE
0202 HT OF HI + LO TIDE
0203 CONTINUOUS TIDE ROD
0204 WATER/TIDE LEVEL
0300 CURRENTS
0301 LONGSHORE CURR SPD
0302 LONGSHORE CURR DIR
0303 SURFACE CURRENT SPD
0304 SURFACE CURRENT DIR
0305 CURRENT PROFILE
0310 TIDAL CURRENT SPEED
0311 TIDAL CURR DIR.
0315 RIP CURRENT SPEED
0316 RIP CURRENT SPACING
0317 BOTTOM CURRENT SPD
0318 BOTTOM CURRENT DIR
0400 WIND
0401 SURFACE WIND SPEED
0402 SURFACE WIND DIR
0403 WIND FORCE
0404 WIND SPEED PROFILE
0405 WIND DIR. PROFILE
1100 WATER TEMPERATURE
1101 SEA SURFACE TEMP.
1102 SUBSURFACE TEMP.
1103 WATER TEMP PROFILE
1104 BOTTOM WATER TEMP.
1200 SALINITY
1201 SURFACE SALINITY
1202 SUBSURFACE SALINITY
1203 BOTTOM SALINITY
1204 SALINITY PROFILE
1300 WATER DENSITY
1301 SURFACE WTR DENSITY
2000 STORMS
2001 STORM TRACK
2002 STORM LANDFALL
2003 STORM SURGE
2004 RADIUS OF MAX WINDS
2005 STORM FORWARD SPEED
2006 DIRECTION OF MOTION
2007 STORM FREQUENCY
2008 CENTRAL PRESSURE
2009 STORM LATERAL EXTENT
2010 STORM VERT. EXTENT
2100 AIR TEMPERATURE
2101 SURFACE AIR TEMP.
2102 AIR TEMP PROFILE
2200 BAROMETRIC PRESSURE
2201 SL BAROM. PRESSURE
2300 PRECIPITATION
2301 SURFACE PRECIP.
2302 PRECIP. INTENSITY
2303 PRECIP. TYPE
2304 PRECIP. CHARACTER
2305 PRECIP AT ALTITUDE
2400 DEW POINT
2401 SURFACE DEW POINT
2402 DEWPOINT PROFILE
2403 RELATIVE HUMIDITY
2500 ATMOSPHERIC VIS.
2501 SURFACE VISIBILITY
2600 SOLAR RADIATION
2601 SOLAR RAD. AT SL
2602 NET SOLAR RADIATION
2700 TEMP. OF SUBSTRATE
2701 SUBSFC TEMP PROFILE

VARIABLE (Continued)

2702 GROUND SURFACE TEMP
3001 SPOT DEPTH SOUNDING
3003 NEARSH DEPTH PROFILE
3005 NEARSHORE SLOPE
3101 BOTTOM SED. SIZE
3103 BOTTOM SED. MINERALS
3105 BOTTOM SED. SAMPLE
3107 BOTTOM CHARACTER
3109 SUSPEND. SED SAMPLE
3111 DUNE SED. SAMPLE
3113 TURBIDITY
3200 BEACH MORPHOLOGY
3202 BEACH BACKSHR SLOPE
3204 BEACH CUSP SPACING
3206 BEACH PLAN SHAPE
3000 BATHYMETRY
3002 TRACK LINE BATHY
3004 BATHYMETRIC SURVEY
3100 SEDIMENTS
3102 BEACH SEDIMENT SIZE
3104 BEACH SED. MINERALS
3106 BEACH SED. SAMPLE
3108 SEDIMENT TRANSPORT
3110 SUSPENDED SED. SIZE
3112 DUNE SEDIMENT SIZE
3114 BOTTOM SED. DENSITY
3201 BEACH FORESHR SLOPE
3203 BERM FACE SLOPE
3205 BEACH PROFILE

METHOD

00001 REMARKS
01001 VISUAL ESTIMATES
01002 FIXED STAFF, VISUAL
01003 PRESSURE GAUGE
01004 STEP RESISTANCE GAUGE
01005 STEP CAPAC. GAUGE
01006 PARALLEL WIRE INDUCT
01007 VERTICAL ACCELEROMTR
01008 THERMOPILE
01009 HINDCAST
01010 COMPASS
01011 PROTRACTOR
01012 THEODOLITE
01013 WAVE GAUGE ARRAY
01014 2-DIMEN. GAUGE ARRAY
01015 LINEAR GAUGE ARRAY
01016 HORIZ. ACCELEROMETER
01017 TIMING DEVICE
01018 TIMES NO OF CRESTS
01019 SEISMOMETER
01020 VIBRO PRESSURE GAUGE
01021 S-M-B HINDCAST
01022 NUMERICAL MODEL
01023 TIMED SWASH ADVANCE
01024 HANDHELD ROD, VISUAL
01025 TRANSIT
01026 PELORUS
01027 SURFACE SLOPE ARRAY
01028 RESISTANCE WIRE GAUGE
01030 CONTINUOUS GAUGE
01031 WAVERIDER BUOY
01032 PITCH AND ROLL BUOY
02001 FLOAT GAUGE
02002 BUBBLER GAUGE
02003 FIXED STAFF, VISUAL
02004 PREDICTION MODEL
02005 ADR FLOAT GAUGE
02006 CAPACITANCE GAUGE
02007 PRESSURE GAUGE
02008 TIDE GAUGE
03001 VISUAL ESTIMATE
03002 SURFACE DRIFTER
03003 MID-DEPTH DRIFTER
03004 BOTTOM DRIFTER
03005 DYE PATCH
03006 SAVONIUS ROTOR
03007 IMPELLOR
03008 ELECTRO-MAG METER
03009 2-COMP ELEC-MAG MTR
03010 COMPASS
03011 CURRENT DROGUE
03012 PROFILING CURR. MTR.
03013 CURRENT METER
04001 IMPELLOR ANEMOMETER
04002 SAVONIUS ROTOR
04003 DIRECTION VANE
04004 ESTIMATE
04005 RAM-AIR-PRESSURE MTR
04006 VORTEX FREQUENCY MTR
04007 TRIPLE REGISTER
04008 WIND RECORDER
04009 CUP ANEMOMETER
11001 MERCURY THERMOMETER
11002 REVERSING THERMOM.
11003 IRRADIATION THERMOM
11004 RESISTANCE THERMOM.

METHOD (Continued)

11005 THERMISTOR
11006 BATHYTHERMOGRAPH
11007 BUCKET SAMPLE
11008 STD PROFILER
11009 AIR-SEA THERMOGRAPH
11010 2-LEVEL THERMOGRAPH
12001 TITRATION
12002 CONDUCTIVITY
12003 SALINOMETER
12004 HYDROMETER
12005 STD PROFILLER
13001 HYDROMTR AT STD TEMP
20001 PROBABILITY MODEL
20002 NUMERICAL MODEL
20003 WEATHER RADAR
21001 RESISTANCE THERMOM.
21002 THERMOGRAM
21003 THERMISTOR
21004 MERCURY THERMOMETER
21005 AIR-SEA THERMOGRAPH
22001 ANEROID BAROMETER
22002 CAPACITY DIAPHRAGM
22003 ELECTRO-BAROMETER
22004 BAROGRAPH
22005 MICROBAROGRAPH
23001 RAIN GAUGE
23002 WEATHER RADAR
23003 TRIPLE REGISTER
24001 HYGROMETER
24002 HYGROTHERMOGRAPH
26001 TRIPLE REGISTER
26002 NET RAD. RECORDER
27001 THERMISTOR
30001 FATHOMETER
30002 LEAD LINE
30003 SEA SLED
30004 FIXED STAKES
30005 SOUNDING ROD, VISUAL
30006 ROD AND HORIZON
30007 SIDE SCAN SONAR
30008 SEISMIC REFLECTION
30009 SONIC BOTTOM PROFILING
31001 SIEVING
31002 SETTLING TUBE/RSA
31003 GRAB SAMPLE
31004 RADIOACTIVE TRACER
31005 SURFACE SCOOP
31006 PRESSURE DIFF. RSA
31007 CUMULATIVE WT. RSA
31008 BCH PROFILE VOL CHNG
31009 PUMP SAMPLER
31010 FLUORESCENT TRACER
31011 DRAG SAMPLER
31013 WATER SAMPLER
31013 PRESSURE DIFFERENCE
31014 MICROSCOPIC EXAMINATION
31015 CORE SAMPLE
32001 ESTIMATED
32002 HANDLEVEL
32003 INCLINOMETER
32004 ROD AND TRANSIT
32005 FIXED STAKES
32006 ROD-AND-HORIZON
32007 LEVEL AND TAPE
32008 LEAD LINE
32009 PARALLELOGRAM FRAME

RCD-TYPE

1 PRIMARY
2 SECONDARY
3 COMPLEMENTARY

MODEL TYPE

0 UNKNOWN
1 SEE REMARKS
2 NUMERICAL
3 SIMULATION
4 PHYSICAL
5 STATISTICAL
6 GRAPHIC
7 MATHEMATICAL
8 MIXED SEE REMARKS

HARDWARE TYPE

0 UNKNOWN	1 SEE REMARKS
2 DIGITAL	3 ANALOG
4 MANUAL	5 HYBRID, SEE REMARKS

SOURCE LANGUAGE

0 UNKNOWN	1 SEE REMARKS
2 FORTRAN	

OUTPUT MODE

00 UNKNOWN	01 SEE REMARKS
02 LINE PRINTER	03 CRT DISPLAY
04 STRIP CHART	05 METER
06 MAGNETIC TAPE	07 PUNCHED PAPER TAPE
08 COM (MICROFICHE)	09 AUDIO
10 PHYSICAL	11 PEN AND PAPER

USABILITY

0 UNKNOWN	1 SEE REMARKS
2 UNDOCUMENTED	3 EXTENSIVE PROGRAMMING REQUIRED
4 SOME PROGRAMMING REQUIRED	5 EASILY IMPLEMENTED
6 FULLY IMPLEMENTED	7 IN USE OPERATIONALLY

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DTIC		12


DAT
FILM